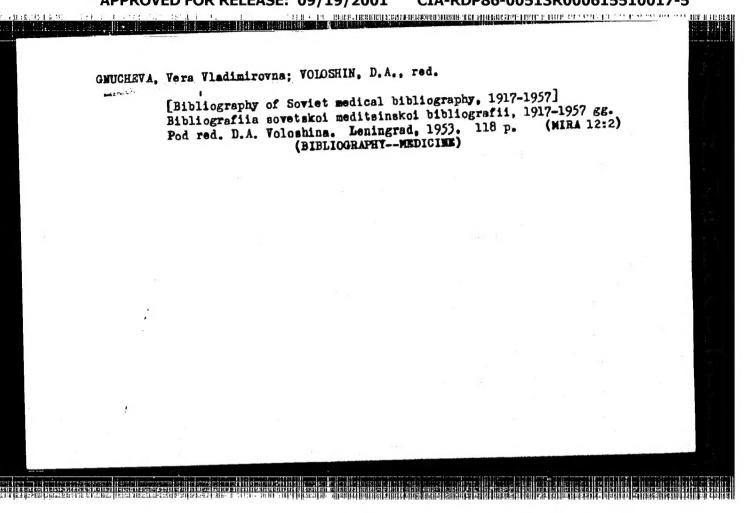
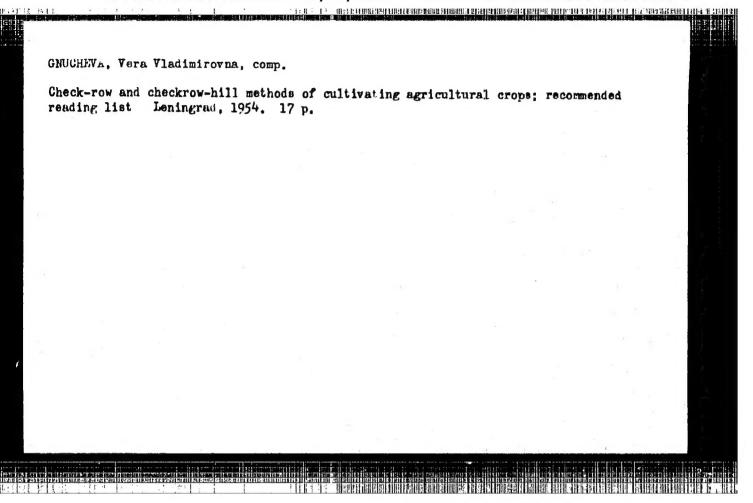


GUICHEVA, Vera Fedorovna. Geograficheskii department Akademii Nauk AVIII veka; pod.
red. M.I. kadreeva. Moskva, AN SSSR, 1946. 445 p. (Akademiia Hauk. Arkhiv.
Trudy, no. 6)
"Materialy i dokumenty": p. /101/ - 233.
Bibliographical footnotes.

SO: IC, Soviet Geography, Part I, 1951; Uncl.





ORUCHEVA. V.V.

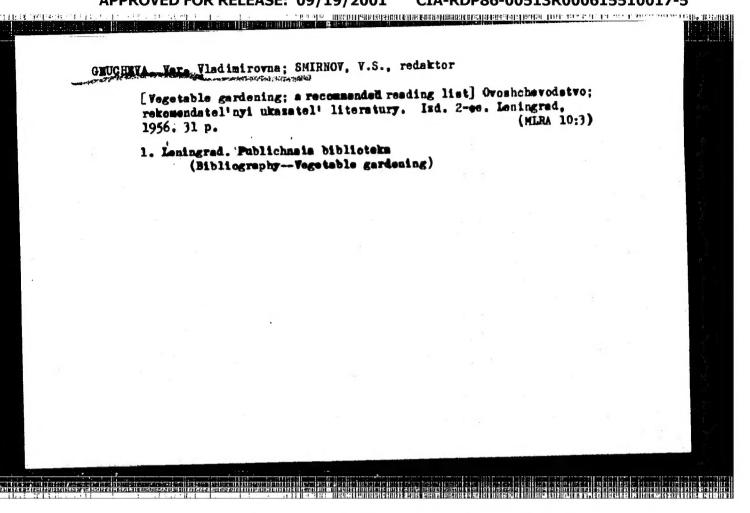
Preducezhdenie i lechenie boleznei sel'skokhoziaistvennykh zhivotnykh (Prevention and therapy of diseases in farm animals). Rekomend. ukazatel' literatury. Leningrad, 1954.
28 p. (Gos. ordena Trudovogo Krasnogo Znameni publichneis b-ka im. M.E. Saltykova-Shchedrina)

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

OMUCHEVA, Vera Vladimirovna; SMIRNOV, V.S., redaktor

[Raising young farm animals and poultry; a bibliography] Vyrashchivanie molodnyaka sel'skokhozyaystvennykh zhivotnykh i ptitsy; rekomendatel'nyi ukazatel' literatury. Leningrad, 1956. 18 p. (MIRA 9:9)

1. Leningrad, Publichnaya biblioteka, (Bibliography-Poultry)
(Bibliography--Stock and stockbreeding)



GRUCHEVA, Vera Vladimirovna; ABRAMOVA, Zh.I., kandidat meditsinakikh nauk, redaktor

[How to keep healthy; a bibliography of scientific and popular medical literature] Kak sokhranit' sdorov'e; rekomendatel'nyi ukasatel' nanchno-populiarnoi meditsinskoi literatury. Leningrad, 1956. 53 p. (MLRA9:7)

 Leningrad, Publichmaya biblioteka. (BIBLIOGRAPHY--MEDICINE)

BRONSHTEYN, Mikhalina Petrovna; GNUCHEVA, Vera Vladimirovna; FUKS, Ye.A., redaktor; ROZEN, E.A., tekhnicheskiy redaktor

[Bibliography of literature on the vatural sciences; a textbook for students of library schools] Bibliografiia estestvennonaucnoi literatury; uchebnoe posobie dlia studentov bibliotechnykh institutov.

Moskva, Gos. izd-vo kul'turno-prosvetit. lit-ry, 1956. 182 p.

(Bibliography---Science)

(MLRA 10:3)

GNUCHRVA, V.V.; VOLASHIW, D.A., redaktor

[Quide to foreign bibliographies of medical literature (1945-1956)]
Puteroditel' po inostrannoi bibliografii meditainskoi literatury
(1945-1956 gg.). Pod red. D.A. Toloshims. Leningrad, Gos.publichnaia
biblioteka im. N.B.Saltykova-Shchedrin, 1957. 108 p. (NIRA 10:7)

(BIBLIOGRAPHY--MEDICIME)

CARCELLEVA, VV

PHASE I BOOK EXPLOITATION

807/4002

Leningrad. Publichneya biblioteka imeni M. Ye. Saltykova-Shchedrina

Leminskiye premii 1959 goda v oblasti yestestvomaniya i tekhniki; rekomendatel'nyy ukazatel' literatury (Lemin Prizes in the Field of Hatural Science and Technology for 1959; Index of Recommended Literature) Lemingrad, 1959. 46 p. 15,650 copies printed.

Additional Sponsoring Agency: MEFER. Ministerstvo kal'tury.

Compilers: Valentina Earpovna Stepanova and Vera Vladimirovaa Gnucheva; Ed.; E. Ya. Marachevskiy; Scientific Ed.; L. Ya. Popilov.

PURPOSE: This booklet is intended for those interested in Seviet scientific and technical achievements.

COVERAGE: The booklet lists persons and groups of persons to whom Lemin prizes were granted for accomplishments in various branches of science and engineering. Each entry contains information on the achievement of the prize winner or winners and a bibliography of related popular scientific literature. In a number of cases books and articles on the fundamentals of the problems dealt with in respective matrices are listed. Card 1/5

Youder Dedman (Court) 801/4	002
Lenin Prizes (Cont.)	
TABLE OF CONTRETS:	
Preface	3
On Granting the Lemin Prizes for 1959	5
Radio Spectroscopy. Elaboration of a New Principle for General Amplifying Radio Waves (Producing Molecular Generators and Amp	sting and plifiers) 6
Atomic Physics. Design and Construction of a 10-Billion Elect Volt Synchrophasetron	9
Mathematics. Discovery of the General Law of Baslity and Solm of the Converse Galois Problem	nti ca
Geology. Scientific Work on the Role of Granitoids in the Pos magnetic Ore Formation	st- 15
Medicine. A Scientific Work Entitled, Study in Rickettsias as Rickettaioses"	nd 17
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Lenin Prizza (Cont.; Agricultural Science. A Scientific Work, "Feeding Livestock"	19
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Blade Mydrewlie Terbine for the Volkhakaya gidroslaktrestantsiya immi V. I. Lenina (Volga Mydroslactric Power Station immi V. I. Lenin)	31
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Machine Building. Development and General Introduction of Group Pro- duction Matheds of Manufacture in Machine Building	36
Machine Building. Development of Gearing With a New Engagement Besign	38
Construction Engineering. Solution of the Problem of Large-Scale, Eigh-Speed Under Reconstruction and Organization of Public Services in the Inchniki Section of Moscow, and Construction of the Athletic Facilities at the Central Stadium immi. V. I. Lenin	40
Construction Engineering. Fundamental Improvements Made in Construction Nothods for Blast Furnaces in the USER	42
Card 4/5	

17(1,5)

PHASE I BOOK EXPLOITATION

sov/2027

Gnucheva, Vera Vladimirovna

Bibliografiya sovetskoy meditsinskoy bibliografii, 1917-1957 gg.
(Bibliography of Soviet Medical Bibliography, 1917-1957)
Leningrad, 1958. 118 p. 1,500 copies printed.

Sponsoring Agency: Leningrad. Gosudarstvennaya publichnaya biblioteka imeni M. Ye. Saltykova-Shchedrina.

Ed.: D. A. Voloshin.

PURPOSE: This bibliography of Soviet medical bibliographies is to assist doctors and medical library workers in searching medical literature and to survey the state of Soviet medical bibliography.

Card 1/4

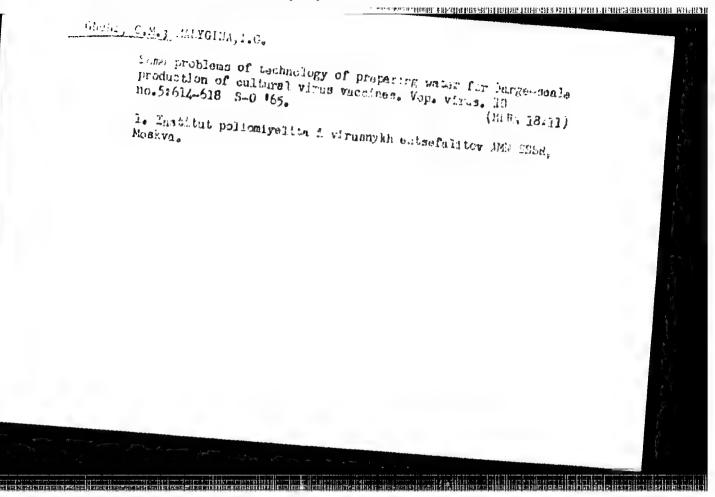
Bibliography of Soviet Medical (Cont.)	30V/2027	
Pharmacology, pharmacy, toxicology Medical microbiology. Parasitology. Infect diseases, immunology. Epidemology Ceneral diagnostics. General therapy, physically health resorts X-ray and radiology Internal diseases Surgery. Treatment of injuries Oncology Neuropathology and psychiatry. Neurosurger Obstetrics and gynecology Children's diseases and pediatrics Venereology and dermatology. Urology Ophthalmology Otolaryngology Stomatology Military medicine Forensic medicine	38 iotherapy, 55 64 67	and the filling and the same of the same o

STEPANOVA, Valentina Karpovna; GHUCHEVA, Vera Vladimirovna; POPILOV, L.Ya., nauchmyy red.; MORACHEVSKIY, M.Ya., red.

[Lenin Prizes for 1959 in the natural sciences and technology; a bibliography] Leninskie premii 1959 goda v oblasti estestvo-saaniia i tekhniki; rekomendatel'nyi ukasatel' literatury. Pod nauchnoi red. L.IA. Popilova. Leningrad, Gos.publichnaia biblioteka im. M.E.Saltykova-Shchedrina, 1959. 46 p.

(NIRA 13:6)

(Bibliography--Technology) (Lemin Prizes)



L 33086-66 ENT(1)/T JK (11) SOURCE CODE: UR/0402/66/000/001/0096/0099	The second of
AUTHOR: Gnuni. G. M.; Dzagurov. S. G.; Kamonenko, L. L.; Mironova, A.	
ORG: Institute of Poliomyolitis and Viral Encophalitides, AMN SSSR, Koscow (Institut poliomielita i virusnykh entsofalitov AMN SSSR)	
TITLE: Nethod of growing tissue cultures and viruses in revolving vessels	67 42
SOURCE: Voprosy virusologii, no. 1, 1966, 96-99	-5)]):
TOPIC TAGS: virology, tissue physiology, medical laboratory instrument, histology]#]#
ABSTRACT: The ordinary method of growing monolayer cultures of trypsinized colls leaves some 60 to 70% of the available area of the vessel unused, thus reducing the possibility of obtaining a large quantity of the cell mass participating in the formation of virus particles. The authors designed an apparatus in which flasks or bottles with a suspension of monkey kidney cells or human diploid cells in a culture medium revolve at the rate of 20 revolutions per hour. They found that the rotation of the vessels had no effect on adherence of the cells to the surface or on their growth. The mean index of proliferation (ratio of number of cells grown to the number inoculated) was about 1, the norm for the given types of tissue. There was a marked increase in the useful area occupied by the monolayer, decrease in consumption of the culture medium, and greater concentration of policayelitis virus, (human diploid cells). Orig. art. has: 1 figure and 5 tables.	
SUB CODE: 06 / SUEM DATE: 07Jun65 / ORIG REF: 004 / OTH REF: 005 Card 1/1 /3 UDC: 576.858.093.1+578.085.23	

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AUTHOR: Gnuni, V. Ts.

TITLE: On the Theory of Dynamic Stability of Laminated Anisotropic Flat Shells,

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fizikomatematicheskikh nauk, 1960, Vol. 13, No. 1, pp. 47-58

TEXT: The author considers flat shells which consist of an odd number of homogeneous orthotropic layers symmetrically arranged with respect to the central surface. The author investigates the dynamic stability. With strong reference to the nonlinear theory of Y. V. Bolotin (Ref.1) it is assumed that the momentless and the undeformed state are identical. However, the author takes into consideration a weak nonlinearity and constructs a solution for which the energy of the system, averaged form a period, is constant. The unbounded increase of the amplitudes in the unstable domains resulting from the linear theory is avoided; the author calculates the amplitude of the phugoid motion occurring in reality. Because of the aforementioned constancy of the energy this amplitude does not depend on the nonlinearity so that jump phenomena

Card 1/2.

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On the Theory of Dynamic Stability of Laminated Anisotropic Flat Shells

are not reproduced.

The author thanks Professor S. A. Ambartsumyan for the subject and guidance.

B

There are 1 figure, and 11 references: 10 Soviet and 1 American.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR (Institute of Mathematics and Mechanics AS Armyanskaya SSR)

SUBMITTED: October 2, 1959

Card 2/2

10 6000 2807

S/022/60/013/005/003/008 C111/C222

11,2312 also 3115,2807

AUTHORS: Bagdasaryan, Zh.Ye., and Gnuni, V.Ts.

TITLE: On the Theory of the Dynamic Stability of Laminated Anisotropic Shells of Revolution

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fizikomatematicheskikh nauk, 1960, Vol. 13, No. 5, pp. 27 - 36

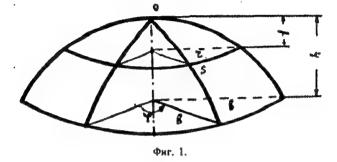
TEXT: The authors consider the axial symmetric problem of the nonlinear dynamic stability of a laminated orthotropic flat shell of revolution with a closed cupola (fig. 1). The shell consists of an odd number of homogeneous orthotropic layers lying symmetrical with respect to the middle surface of the shell. One of the planes of the elastical symmetry of each layer is parallel to the middle surface, the two others are perpendicular to the meridian surfaces and parallel circles. It is assumed that the Kirchhoff- Love's hypothesis is correct for the totality of the shell.

Card 1/7

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On the Theory of the Dynamic Stability of Laminated Anisotropic Shells of Revolution

Fig. 1.



The authors obtain the equations of the dynamic stability

Card 2/7

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On the Theory of the Dynamic Stability of Laminated Anisotropic Shells of Revolution

$$a_{11}r^{2}\frac{\partial^{2}\varphi}{\partial r^{2}} + a_{11}r\frac{\partial\varphi}{\partial r} - a_{22}\varphi - r\frac{\partial f}{\partial r}\frac{\partial w}{\partial r} - \frac{r}{2}\left(\frac{\partial w}{\partial r}\right)^{2} = 0,$$

$$D_{11}r\frac{\partial^{3}w}{\partial r^{3}} + D_{11}\frac{\partial^{2}w}{\partial r^{2}} - D_{22}\frac{1}{r}\frac{\partial w}{\partial r} + \frac{\partial}{\partial r}\left(w+f\right)\cdot\varphi +$$

$$+ \int_{0}^{r}\left(m^{2}\frac{\partial^{2}w}{\partial t^{2}} + T_{1}^{0}\frac{\partial^{2}w}{\partial r^{2}} + T_{2}^{0}\frac{1}{r}\frac{\partial w}{\partial r}\right)rdr = 0.$$

$$(1.13)$$

where $a_{11} = \frac{c_{11}}{\Omega}$, $a_{22} = \frac{c_{22}}{\Omega}$, $\Omega = c_{11}c_{22} - c_{12}^2$ $c_{jk} = 2 \left[B_{jk}^{n+1} S_{n+1} + \sum_{i=1}^{n} B_{jk}^{i} (S_{i} - S_{i+1}) \right]$,

(1.6) $D_{jk} = \frac{2}{3} \left[B_{jk}^{n+1} S_{n+1}^{3} + \sum_{i=1}^{n} B_{jk}^{i} (S_{i}^{3} - S_{i+1}^{3}) \right],$

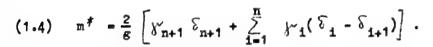
Card 3/7

S/022/60/013/005/003/008 C111/C222

On the Theory of the Dynamic Stability of Laminated Anisotropic Shells of Revolution

$$B_{11}^{i} = \frac{E_{1}^{i}}{1 - \mu_{1}^{i} \mu_{2}^{i}}, \quad B_{22}^{i} = \frac{E_{2}^{i}}{1 - \mu_{1}^{i} \mu_{2}^{i}},$$

$$B_{12}^{i} = \frac{\mu_{1}^{i} E_{2}^{i}}{1 - \mu_{1}^{i} \mu_{2}^{i}} = \frac{\mu_{2}^{i} E_{1}^{i}}{1 - \mu_{1}^{i} \mu_{2}^{i}}, \quad B_{66}^{i} = G_{12}^{i}$$



Here V_i is the specific weight of the i-th layer, δ_i is the distance of the i-th layer from the middle surface of the shell; furthermore according to (Ref. 5), instead of the external charge P acting normally to the middle surface, the authors substitute the expression

Card 4/7

S/022/60/013/005/005/008 C111/C222

On the Theory of the Dynamic Stability of Laminated Anisotropic Shells of Revolution

$$(1.12) - T_1^0 \frac{\partial^2 w}{\partial r^2} - T_2^0 \frac{1}{r} \frac{\partial w}{\partial r}$$

 ψ is determined from the first equation (1.13) under consideration of the clamping conditions; then the second equation is solved according to the method of Bubnov - Galerkin. The calculation is carried out for a flat spherical shell, where according to (Ref. 3) it holds

$$f(\mathbf{r}) = h\left(\frac{\mathbf{r}}{b}\right)^2$$

and for a conic shell with

$$f(r) = \frac{h}{b} r .$$

Here it is assumed that $p=p_0+p_t$ cos 9t. In the spherical case, for the nonlinear eigenfrequency ω_n and the kinetic pressure p_{kr}^n the authors give the values Card 5/7

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On the Theory of the Dynamic Stability of Laminated Anisotropic Shells of Revolution

(3.9)
$$\omega_n^2 = \omega^2 + 1W_0 + dW_0^2$$

(3.10)
$$p_{kr}^{n} = p_{kr} \left(1 + \frac{1}{\omega^{2}} W_{0} + \frac{d}{\omega^{2}} W_{0}^{2}\right)$$

where ω is the linear eigenfrequency, p_{kr} is the critical pressure for a static action, 1 and d are constants depending on the clamping conditions,

while for $W_0 = \frac{1}{b^4} w(0,t)$ a nonlinear equation of second order with with variable coefficients is given. In the case of resonant vibrations it holds

(5.4)
$$W_0 = C \cdot \cos \left[\left(\Omega + \frac{\varepsilon}{2} \right) t + y \right],$$

where C is the amplitude, y is the phase shift.

Card 6/7

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On the Theory of the Dynamic Stability of Laminated Anisotropic Shells of Revolution

There are 2 figures and 6 Soviet references.

[Abstracter's note: (Ref. 5) concerns V.V. Bolotin, Dynamic Stability of Elastic Systems, 1956]

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR

(Institute of Mathematics and Mechanics of the Academy of

Sciences Armyanskaya SSR)

SUBMITTED: April 7, 1960

V

Card 7/7

28970 S/179/61/000/003/012/016 E081/E435

10.6000 1327

Ambartsumyan, S.A. and Gnuni, V.Ts. (Yerevan)

TITLE:

AUTHORS:

Forced vibrations and dynamic stability of 3-ply

or + hotropic plates

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye

tekhnicheskikh nauk, Mekhanika i mashinostroyeniye,

1961, No.3, pp.117-123

TEXT: The paper is a continuation of previous work (Ref.6: Ambartsumyan S.A. PMM, 1960, Vol.XXIV, No.2: Ref.11: Gnuni V.Ts. Izv. AN Arm.SSR, ser. fiz.-mat. nauk. 1960, Vol.XIII, No.1; Ref.14: Ambartsumyan, S.A., Khachatryan A.A. Izv. AN SSSR, OTN, Mekhanika i mashinostroyeniye, 1960, No.1: Ref.16: Ambartsumyan S.A. Theory of anisotropic shells. Fizmatgiz 1961). The material in each layer of the plate obeys the generalized Hooke's law and has three orthogonal planes of alastic symmetry at each point, with principal directions α , β , γ , the γ direction coinciding with the thickness of the plate. The following assumptions are made: 1. The hypothesis of undeformed normals applies to the external (bearing) layers. 2. For the internal layer: α the shear stresses $\tau_{\alpha\gamma}$ and $\tau_{\beta\gamma}$ have the form

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 $\tau_{\alpha\gamma} = f(\gamma)_{\varphi}(\alpha, \beta), \qquad \tau_{\beta\gamma} = f(\gamma) \psi(\alpha, \beta)$ (1.1)

where $\psi(x,\beta)$ and $\hat{\psi}(x,\beta)$ are functions to be determined and $f(\gamma)$ is a function characterizing the law of change of shear stresses through the thickness, subject to the condition $f(\pm h/2) = 0$; b) the normal stress of on planes parallel to the middle surface can be neglected in comparison with the other stresses; c) the normal displacement is invariant with thickness. 3. The normal displacements are comparable with the thickness, and only those non linear terms arising from the normal displacements are retained in the expressions for the deformation of the middle surface, On the basis of these assumptions, the differential equations governing the defication and stress functions of the plate are stated. The deflection and stress functions for a place simply supported at the edges and subjected to compressive stresses P1. Po in its plane are assumed to be double infinite trigonometric series and expressions are obtained for the frequency of vibration and the critical values of the stresses P_1 and P_2 . The dynamic

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Forced vibrations and dynamic ...

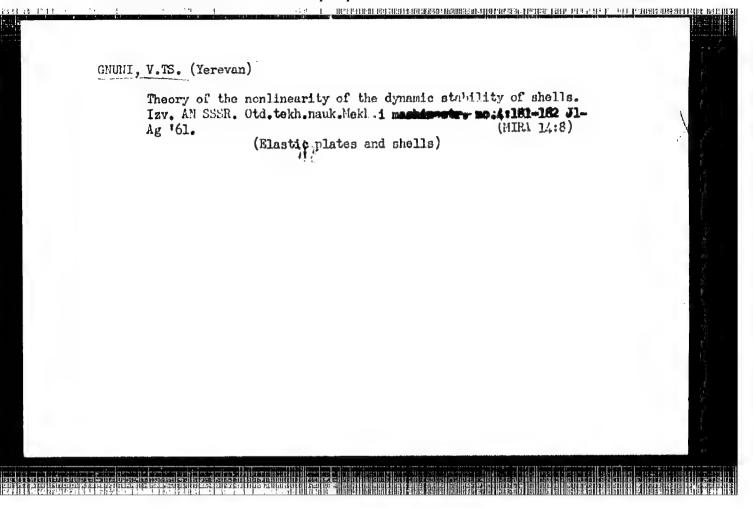
stability of the system and the shape of the resonance curve are also discussed. Special cases of the equations are discussed and the equations are illustrated by numerical examples. There are 6 figures, i table and 18 references: 17 Soviet and 1 non-Soviet. The reference to an English language publication reads as follows: Reissner E. Small Bending and Stretching of Sandwich-Type Shells. NACA Report, 1950, 975.

ASSOCIATION: Institut matematiki i mekhaniki AN ArmSSR (Institute of Mathematics and Mechanics AS ArmSSR)

SUBMITTED. February 28, 1961

X

Card 3/3



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AUTHORS:

Bagdasaryan, Sh. Ye., Gnuni, V. Ts.

TITLE:

Resonance in forced nonlinear vibration of layered anisotrop-

ic shells

PERIODICAL:

Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-

matematicheskikh nauk, v. 14, no. 1, 1961, 41-49

TEXT: The authors study forced vibrations of elastic shells consisting of an odd number of layers. The layers are orthotropic and symmetrical with respect to the central layer of the shell. The elastic structure of the individual layers is widely similar to their geometrical structure. Two classes of shells are distinguished: shells with different families of curvature lines and shells with two equal families of curvature lines, i.e., axially symmetrical shells. On the basis of the hypothesis by Kirchhoff-Lyav a nonlinear differential equation of the form

 $f'' + 2\lambda f' + \omega^2 f - 1f^2 + df^3 = q \cos \theta t$ is derived as vibration equation

Card 1/3

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Resonance in forced nonlinear ...

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 $b^2 \left[(\xi - \chi b^2)^2 + \lambda^2 \right] = \frac{a^2}{4\omega^2} \text{ with } K = \frac{3d}{8\omega} - \frac{5 \cdot 1^2}{12\omega^2}. \text{ The boundaries of the resonance frequency domain are determined by the condition } \frac{db}{d\xi} = \infty \text{ or } \frac{db}{d\xi} = \infty$

by its equivalent condition $\epsilon^2 - 4\kappa b^2 \epsilon + 3\kappa^2 b^4 + \lambda^2 = 0$. Although the nonlinearity of the vibration does not influence the maximum value $b_{max} = \frac{q}{2\omega\lambda}$ of the amplitude factor, it gives rise to a series of resonance types characterized by $0 = \frac{\omega}{2} + \epsilon$, or $0 = 2\omega + \epsilon$; they are discussed at the end of this paper. There are 5 figures and 9 Soviet-bloc references.

Card 2/3

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Resonance in forced nonlinear ...

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ASSOCIATION:

Institut matematiki i mekhaniki AN Armyanskoy SSR (Institute of Mathematics and Mechanics AS Armyanskaya SSR)

SUBMITTED:

May 20, 1960

Card 3/3

DUSKIY, P. V.	PHASE I BOOK EXPLOITATION	sov/6206 ^{>5-}	
Konferentsiya po	teorii plastin i obolochek. Kazan		
Trudy Konferents 1960. (Trans and Shells He	ii po teorii plastin i obolochek, 21 actions of the Conference on the The ld in Kazan', 24 to 29 October 1960 skogo gosudaratysmogo universitate	1-29 oktyabrya bory of Plates	
Sponsoring Agenc gosudarstvenn	y: Akademiya nauk SSSR, Kazanskiy yy universitet!im. V. I. Ul'yanova-I	filial. Kazanskiy	
A. L. Gol'den A. I. Lur'ye, R. G. Surkin.	Kh. M. Mushtari, Editor; F. S. Isa , V. V. Bolotin, A. S. Vol'mir, N. S. veyzer, N. A. Kil'chevskiy, M. S. Kor G. N. Savin, A. V. Sachenkov, I. V. and A. P. Filippov. Ed.: V. I. Al u. P. Semenov.	nishin,	,
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Transactions of the Conference (Cont.)

SOV/6206

25

COVERAGE: The book is a collection of articles delivered at the Conference on Plates and Shells held in Kazan' from 24 to 29 October 1960. The articles deal with the mathematical theory of plates and shells and its application to the solution, in both linear and nonlinear formulations, of problems of bending, static and dynamic stability, and vibration of regular and sandwich plates and shells of various shapes under various loadings in the elastic and plastic regions. Analysis is made of the behavior of plates and shells in fluids, and the effect of crosp of the material is considered. A number of papers discuss problems associated with the development of effective mathematical methods for solving problems in the theory of shells. Some of the reports propose algorithms for the solution of problems with the aid of electronic computers. A total of one hundred reports and notes were presented and discussed during the conference. The reports are arranged alphabetically (Russian) by the author's name.

Card 2/14

Transactions of the Conference (Cent.)	SOV/6206
Ganiyev, N. S. Inverse Problems of Bending of Shells of Rectangular Plan	107
Gnatykiv, V. N. Axially Nonsymmetrical. Deformation of a Shallow Spherical Shell	113
Gnuni, V. Ts. On the Boundaries of Dynamic Instability of Shells	117
Gontkevich, V. S. Natural Vibrations of Orthotropic Cylindrical Shells	124
Goncharenko, M. V. Statistical Method in the Problem of Pure Bending of a Cylindrical Shell	130
Goryainov, Yu. V., Yu. I. Kadashevich, and I. L. Mironov. On the Hydrodynamic Forces Caused by the Dynamic Buckling of Cylindrical Shells Immersed in a Liquid	137

Card 6/14

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1327, also 2607,2807

26135 S/040/61/025/004/014/021 D274/D306

AUTHORS:

Ambartsumyan, S.A. and Gnuni, V. Ts. (Yerevan)

TITLE:

On the dynamic stability of nonlinear-elastic sand-

wich plates

PERIODICAL:

Prikladnaya matematika i mekhanika, v. 25, no. 4,

1961, 746-750

TEXT: The plate is referred to an orthogonal coordinate-system α , β , γ so that the middle surface coincides with the $\alpha\beta$ -plane. Certain assumptions are made with regard to stress and strain tensors. The equations for the normal displacement ware set up. Further, the dynamic stability equation is obtained. The solution of this equation is sought in the form

 $w = f(t) \times (\alpha) \times (\beta)$

(2.3)

where f is the sought-for function and X and Y are chosen so as to satisfy the boundary conditions. Using the Bubnov-Galerkin method, a nonlinear differential equation for f is obtained. Under certain assumptions and taking into account linear damping, this equation

Card 1/4

26134

S/040/61/025/004/014/021 D274/D306

On the dynamic stability

reduces to ...

 $f'' + 2\varepsilon_{\star}f' + \Omega_{\star}^{2} (1 - 2\mu \cos \theta t) f + V (f, f', t) = 0$ (3.4)

where

 $\Omega_{\star} = \Omega \frac{\theta}{\theta \star}, \qquad \mathcal{E}_{\star} = \mathcal{E} \frac{\theta}{\theta \star}$ $V(f,f',t) = 2(\mathcal{E} - \mathcal{E}_{\star}) f' + (\Omega^{2} - \Omega_{\star}^{2}) (1 - 2\mu \cos \theta t) f - \alpha_{1} |f|^{m_{1}-1} f - \alpha_{2} |f|^{m_{2}-1} f$ (3.5)

The critical frequency θ_{\star} is determined by the assumption that the initial unperturbed state is not deformed. Thus, e.g., at the boundaries of the principal region of instability:

 $\theta_{\star}^{2} \approx 4\Omega^{2} \left(1 + \sqrt{\mu^{2} - \frac{4\varepsilon^{2}}{\Omega^{2}}} \right) \tag{3.6}$

For $\theta = \theta_*$, the linear part of Eq. (3.4) allows periodic solutions, which are given by the following estimates

 $\varphi_1(t) \approx \cos\left(\frac{\theta t}{2} - \sigma\right), \quad \varphi_2(t) \approx \sin\left(\frac{\theta t}{2} - \sigma\right) \quad \sigma \approx \frac{1}{2} \operatorname{arc} \sin\frac{\theta^3 \mathcal{E} \star}{4\mu\Omega \star^2}$

Card 2/4

On the dynamic stability... 5/060/61

S/060/61/025/004/014/021, D274/0306

By means of L.I. Mandel'shtam's method, the amplitude C of the steady-state oscillations at the boundaries of the principal instability-region can be determined in the zeroth approximation from

$$\int_{0}^{2\pi} V[C \varphi_{i}(t), C \varphi_{i}(t), t] P_{i}(t) dt = 0$$
 (5.8)

Whence the nonlinear algebraic equation

$$A_1^{\text{cm}} + A_2^{\text{cm}} = (\Omega^2 - \Omega_{\star}^2) (1 \mp \mu \cos 2\sigma) C$$
 (5.9)

where $A_{i} = \frac{i\theta}{2\pi} \int_{0}^{2T} \left| \cos^{m_{i}+1} \left(\frac{\theta t}{2} - \sigma \right) \right| dt$, or $A_{i} = \frac{\alpha_{i}\theta}{2\pi} \int_{0}^{2T} \left| \sin^{m_{i}+1} \left(\frac{\theta t}{2} - \sigma \right) \right| dt$ (5.10)

It is shown that the negative sign in the right-hand side of (3.9) refers to the lower-, and the positive sign to the upper boundary of the region of instability. It is also shown that the coefficients Λ_i vanish if the corresponding layer of the plate is made of linear-

Card 3/4

"APPROVED FOR RELEASE: 09/19/2001

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S/040/61/025/004/014/021 D274/D306

On the dynamic stability...

elastic material. Fig. 5 shows an amplitude vs. frequency plot of steady-state oscillations in the principal instability region, when $A_i \geqslant 0$. Fig. 4 shows such a graph for $A_i \leqslant 0$. If the two coefficients A_1 and A_2 are of opposite sign, the corresponding two terms of (3.9) will have opposite effects on the frequency of oscillations. 2 examples are given for illustration of Eq. (3.9). There are 7 figures and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: W. Prager, On ideal locking materials. Transactions of the Society of Rheology. 1957, 1.

ASSOCIATION:

Institut metematiki i mekhaniki AT ASSR (Institute

of Mathematics and Mechanics AS ArmSSR)

SUBHITTED:

April 22, 1961

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Fig. 4

Card 4/4

S/879/62/000/000/039/088 D234/D308

AUTHORS: Ambartsumyan, S. A., Bagdasaryan, Zh. Ye. and Quuni, V. Ts. (Yerevan)

TITLE:

Some dynamical problems of anisotropic three-layer shells

SOURCE:

Teoriya plastin i obolochek; trudy II Vessoyuznoy konferentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo AN USSR, 1962, 254-259

The authors consider a thin shell whose layers are uniform, orthotropic and symmetrical with respect to the middle surface. The material of each layer obeys the generalized Hooke's law. Normal displacements are assumed to be comparable with the thickness and not to vary along the thickness. The complete system of differential equations in terms of 5 unknown functions is formulated; it is essentially simplified if the effect of normal stress is neglected. This system can be applied to problems of nonlinear dynamical stability or aeroelasticity if appropriate substitutions are made.

Card 1/1

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37852 \$/022/62/015/003/001/008 D234/D308

.UTHOR:

Gnuni, V.Ts.

PINTER

Parametrically excited vibration of laminated

anisotropic flexible shells

PERIODICA:

Akademiya nauk Arayanskoy SSR. Izvestiya v. 15, no. 5,

1962, 29-36

TEXT: General equations of dynamic stability of a shell consisting of any number of layers is deduced, the tangential components of inertial forces being neglected. The equations are solved for the case of a shell rectangular in plan and radially supported at its edges. An approximate expression for parametrically excited vibrations is deduced and discussed.

ASSCCIATION:

Institut matematiki i mekhaniki AN Armyanskoy SSR

(Institute of mathematics and mechanics, As Armenian

SSR)

GUBNITTID:

January 27, 1962

Card 1/1

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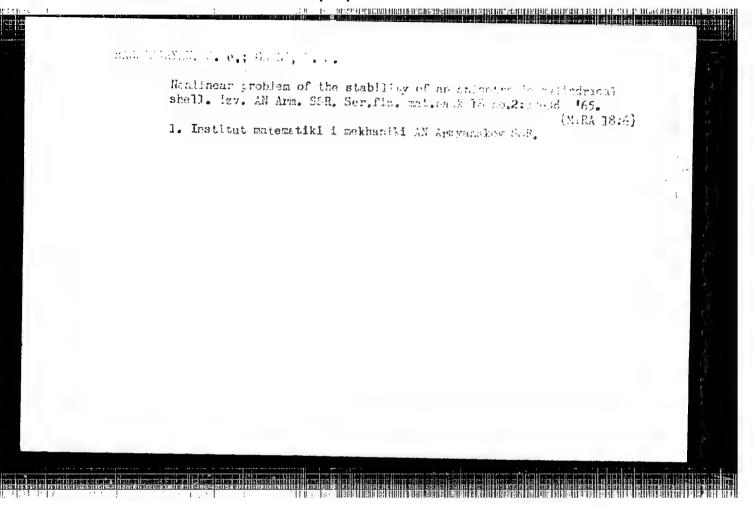
BAGDASARYAN, Zh.Ye.; QNUNI, V. Ts. (Yerevan)

"Some problems of dynamics of anisotropic - non-orthotropis - plates and shells"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

29541-65 EWI(1)/EPF(n)-2Pu-4 ACCESSION NR: AP5005179 8/01/9/64/000/006/0117/0119 15 AUTHORS: Ambartsumyan, S. A. (Yerevan); Gnuni, V. Ts. (Yerevan) B TITLE: Parametric oscillations of a flexible plate in high temperature fields SOURCE: AN SSSR. Izvestiya. Mekhanika i mashinostroyeniye, no. 6, 1964, 117-119 TOPIC TAGS: flexible plate, high frequency vibration, temperature field, variational calculus, resonant state ABSTRACT: Consider a flexible isotropic plate of thickness h in a Cartesian coordinate system. The rectangular plane of the plate is hinged around its perimeter and is subjected to a high-frequency longitudinal load P. to P cos Ot and temperature T = T(z, t) = T(-z, t). The elasticity modules E is assumed to be a function of the temperature. The equations of dynamic stab lity are obtained on the bases of the hypotheses that normal displacements are comparable to the plate thickness, that the plate normal does not deferm, and that temperature changes in a differential element do not induce displacements. For an approximate solution, Card 1/2

L 29541-65 ACCESSION NR: APSO05179 it is assumed that, during a principal parametric resonance pariod, the heated plate oscillates according to the law where Using the Calerkin-Bubnov variational principle, the result obtained is $C_{jk}^{2} = \frac{1}{3} \left[\gamma \left(\epsilon_{j} \right) + 2\gamma_{1} \frac{\pi}{\theta} \right]^{-1} \left[\theta^{2} - \theta_{0k}^{2} \left(\epsilon_{j} \right) - 8\alpha \frac{\pi}{\theta} \right]$ The case is considered where the changes in E are very large. This condition gives rise to a quasi-static problem in the temperature sonse. A solution for C also given for the conditions $E = E_0 - eT$, $T = B(s)t^2$, $E = E_0$ dj um 48 (1) Orig. art. has: 24 equations. ASSOCIATION: none SUBMITTED: 12Jun64 ENCL: 00 BIOB CODE AS OTHER: 000



L 58805-65 EWT(d)/EWT(d	163 UI	P(*)/EWP(L)/EWK(R/0022/65/018/) pr-1/0014	Peb 11W/EH /0042 33	
TITLE: Contrib orthotropic inhomogen	ution to the nor	nlinear theory	of stab	llity of	
SOURCE: AN ArmS nauk, v. 18, no. 1, 1	SR. Izvestiva. 9	Beriya fiziko-	wtemiti	heskikh	•
TOPIC TAGS: static orthotropic shell, said ABSTRACT: The artist of an orthotropic inhealong its contour and first-approximation from the author earlier v. 13, no. 1, 1960) is	cle deals with mogeneous flexi symmetrically 1 or the dynamic s	the static and ble shell arb, nhomogeneous tability of a	dynamic trarily in thickn	stability supported less. The	
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ACCESSION NR: AP5012163

under certain assumptions. The stability of the non-trivial solutions can be verified by standard means. A hinge-supported orthoropic three-layer cylindrical shell is investigated by way of a numerical example. An equation is also derived for parametrically excited oscillations in such a shell and it is shown that resonent oscillations can be produced in it at frequencies below critical. Original article has: 38 formulas

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR (Institute of Mathematics and Mechanics, AN ArmSSR)

SUBMITTED:

23Jun64

ENCL: 00

SUB CODE: AS

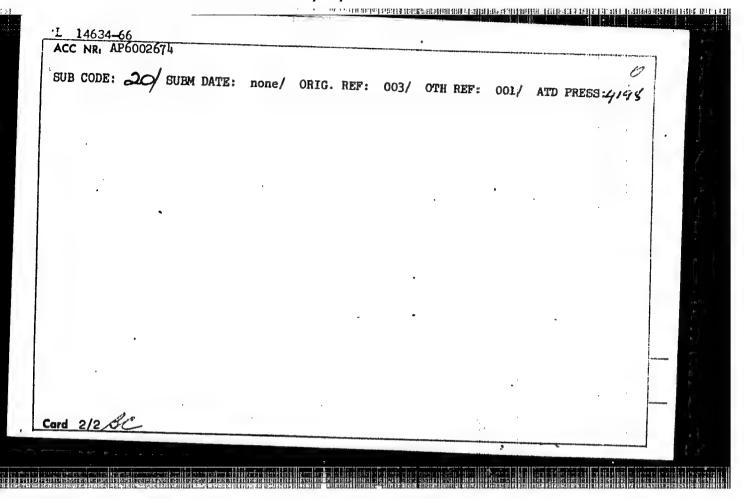
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OTHER: 001

Card 2/2 Staf

ACC NR. AP6002674 WW/EM SOURCE CODE: UR/0252/65/041/004/0199/0203 AUTHOR: Bagdasaryan, G. Ye.; Gnuni, V. Ts. ORG: Institute of Mathematics and Mechanics, Academy of Sciences, Armenian SSR (Institut matematiki i mekhaniki Akademii nauk Armyanskoy SSR) TITLE: Oscillations of a cylindrical shell filled with a liquid of wariable depth SOURCE: AN ArmSSR. Doklady, v. 41, no. 4, 1965, 199-203 TOPIC TAGS: shell theory, cylindrical shell structure, shell structure dynamics, ABSTRACT: The paper presents a theoretical discussion of the oscillation of a circular cylindrical shell filled to a variable depth with an incompressible fluid the mean surface of the thin shell serves as the coordinate plane and the shell is assumed to satisfy the hypothesis of nondeforming normals (V. Z. Vlasov, Obshchaya teoriya obolochek, Gostekhizdat, 1949). It is also assumed that the wave motion on the free surface of the liquid has only a slight effect on the oscillations of the shell. The calculation is based on shell oscillation and potential liquid motion equations which are transformed into a system of ordinary differential equations with variable coefficients by means of the Bubnov-Halerkin variation method. It is shown that under certain conditions the depth variation of the liquid may lead to a decrease or increase in the natural frequency of the shell. Orig. art. has 17 formulas. Card 1/2 08]



Dacilliations of a cylindrical shell filled with a liquid of varying depth. Dokl. AN Arm. SSR 41 no. 4:199-203 '65

(MIRA 19:1)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

L 23069-66 ENT(ACC NR. AP6011330 WW/EX IJF(c) ENT(st)/ENP(w)/ETC(m)-6 SOURCE CODE: UR/0198/66/002/003/0021/0026 AUTHOR: Bagdasaryan, G. Ye. (Yerevan); Gnuni, V. Ts. (Yerevan) ORG: Institute of Mathematics and Mechanics, AN ArmSSR (Institut matematiki i mekhaniki, AN ArmSSR) TITLE: Parametric vibrations of a cylindrical shell filled with liquid of a variable depth SOURCE: Prikladnaya mekhanika, v. 2, no. 3, 1966, 21-26 TOPIC TAGS: vibration theory, parametric vibration, parametric resonance, cylindrical shell vibration, shell liquid system ABSTRACT: The problem of the parametric vibration of a circular cylindrical shell with constant wall thickness filled with incompressible liquid of variable depth is analyzed under the assumption that the shell is acted upon by longitudinal parametric force P0 + P1coset and internal pressure q. A system of equations expressing the dynamic stability of a shell (equation for the deflection w and the stress function Φ) and the equation for the potential function φ of the disturbed liquid motion with certain boundary conditions are written, using the following simplifying assumptions: 1) the Kirchhoff-Love hypothesis on preservation of normals; 2) well known simplifications in the theory of shells with a large index of variation; 3) the motion of a liquid in a shell is potential; 4) the wave motion of the free surface of a liquid Card 1/2

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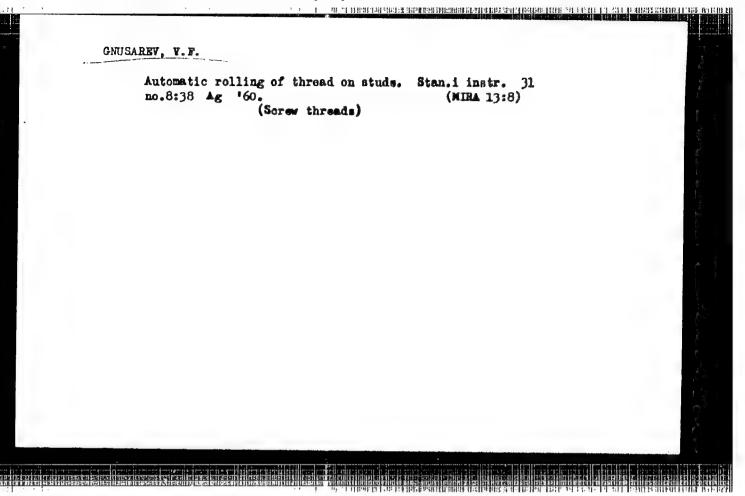
has very little effect on the vibration of the shell. Assuming that the end of the shell is hinged, w and Φ are written in the form of finite trigonometric series with unknown functions $W_g(t)$ and $\Phi_g(t)$ $(t=0,1,\ldots,n).$ It is shown that $\Phi_g(t)$ as well as all vibration characteristics can be expressed in terms of $W_g(t)$. A system of ordinary differential equations for determining the function $W_g(t)$ is derived from the equations of the dynamic stability of the shell, using the Bubnov-Galerkin variational method. The case N = O is investigated in more detail. Equations for determining the critical values of the parametric resonance of a shell filled "with a liquid of variable depth are derived. Orig. art. has: 29 formulas. [LK]

SUB CODE: 20/ SUBM DATE: 26Apr65/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS:

Card 2/2 800

LAVRINENKO, V.T., red.; GNUSAREV. A.N., red.; SHIKHANOVICH, L.I., red.; ZHELNINA, N.A., red.; TERNOUSHKO, N.M., red.; tekhred.

[Economy and organization of the socialist agriculture of Turkmenistan] Ekonomika i organizatsiia sotsialisticheskogo sel'akogo khoziaistva Turkmenistana. Ashkhabad, Turkmenskoe gos.izd-vo. 1958. 321 p. (MIRA 12:10) (Turkmenistan--Agriculture)



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L 29935_66 EWT(m)/EMP(t)/ETI IJP(c) JD

ACC NRAR6010650 SOURCE CODE: UR/0276/65/000/010/E070/B070

AUTHOR: Gnusin, N.P.; Nechayev, Ye. A.; Kutyukov, G. T.; Lavrova, T.A.

TITLE: Comparative evaluation of the existing methods of cadmium 39
plating from non-cyanide solutions

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 10B440

REF SOURCE: Sb. dokl. k Novosib. nauchno-tekhn. konferentsii po mashinostr. Ch. 1. Novosibirsk, 1964, 129-134

TOPIC TAGS: metal plating, cadmium compound, electrolyte, ammonium salts

ABSTRACT: Results are given of studying basic electrolytes for cadmium plating and the technological parameters of their work are compared. It is noted that good results are obtained from complex ammoniate salts. The outlook for further improvement of electrolites based on amino compounds is stressed.

SUB CODE: 407/ SUBM DATE: none

Card 1/1 (1)

ONUSER, N.T.: FORDERNY, N.I., FREME, t...

Valve effect for a metal immersed in a solution ... Statement in the presence of a chemical and contentration polarization.

12v. 90 AN SSSR no.3 Ser. khim. nauk n... 11:11-12: 46.

(MEA 18-8)

1. Institut fiziko-khim:cheskikh samov pererabatki mineralization syriya Sibirskogo otdeleniya AN SSSR, Novembersk.

GNUSIN, N.P.; FODDUBNYY, N.P.; RULENKO, E.N.; FOMIN, A.G.

Current distribution on a cathode as a strip in a half-space of the electrolyte with a polarization curve expressed by the Tafel formula. Elektrokhimiia 1 no.4:452-459 Ap 165.

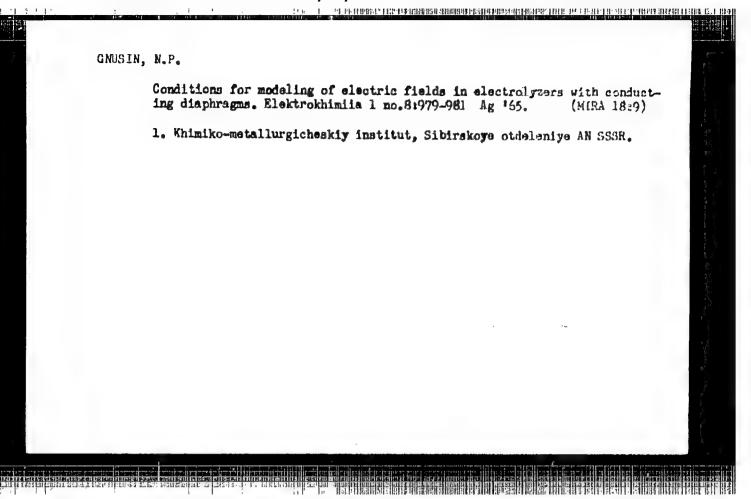
1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR.

DARTEMEV, V.Ya.; VARENTSOV, V.K.; GNUSIN, N.P.

Cadmium pluting from a sulfate solution in the presence of "sapal." Zashch.met. 1 no.6:709-712 N-D *65.

(MIRA 18:11)

1. Institut firiko-khimichmekikh cencv pererabotki mineral*nogo syr'ya Sibirskogo otdeleniya AN SSSR.



ACC NR. AP6000229 SOURCE CODE: UR/0289/65/000/002/0003/0008 AUTHOR: Gnusin, N. P.; Pevnitskava, M. V. ORG: Institute of Physicochemical Principles of the Processing of Hineral Raw Materials, Siberian Branch, AN SSSR Movostbirsk (Institut fiziko-khimicheskikh osnov pererabotki mineral nogo syr ya Sibifskogo otdeleniya AN SSSR) TITLE: Electrochemical properties of commercial cation-exchange membrane. SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1965, 3-8 TOPIC TAGS: ion exchange membrane, electric conductance, cation ABSTRACT: For a cation-exchange membrane containing one species of counterions and one species of cations, the transference number of the counterion can be expressed by the formula.	L 10844-66 EWT(Acma truck		ingirany normalis (1916)		
ORG: Institute of Physicochemical Principles of the Processing of Hineral Raw Materials, Siberian Branch, AN SSSR Physicochemical (Institut fiziko-khimicheskikh osnov pererabotki mineral nogo syr ya Sibifskogo otdeleniya AN SSSR) TITLE: Electrochemical properties of commercial cation-exchange membranes SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1965, 3-8 TOPIC TAGS: ion exchange membrane, electric conductance, cation ABSTRACT: For a cation-exchange membrane containing one species of counterions and one species of cations, the transference number of the counterion can be expressed by the formula.	ACC NR: AP60002		SOURCE CODE:	UR/0289/65/0	00/002/0003/000	8
pererabotki mineral nogo syr ya Sibirskogo otdeleniya AN SSSR) TITLE: Electrochemical properties of commercial cation-exchange membranes SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1965, 3-8 TOPIC TAGS: ion exchange membrane, electric conductance, cation ABSTRACT: For a cation-exchange membrane containing one species of counterions and one species of cations, the transference number of the counterion can be expressed by the formula.			M. V.		3	
SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1965, 3-8 TOPIC TAGS: ion exchange membrane, electric conductance, cation ABSTRACT: For a cation-exchange membrane containing one species of counterions and one species of cations, the transference number of the counterion can be expressed by the formula.	pererabotki mineral	nogo syr ya Sibi	nyovosibirsk (In rskugo:otdeleniy	stitut fiziko a AN SSSR)	-khimicheskikh	
TOPIC TAGS: ion exchange membrane, electric conductance, cation ABSTRACT: For a cation-exchange membrane containing one species of counterions and one species of cations, the transference number of the counterion can be expressed by the formula.	TITLE: Electrochem	ical properties o	f commercial cat	ion-exchange	membranes 7, 44, 5	
ABSTRACT: For a cation-exchange membrane containing one species of counterions and one species of cations, the transference number of the counterion can be expressed by the formula.	SOURCE: AN SSSR.	Sibirskoye otdele	niye. Izvestiya.	Seriya khimi	cheskikh nauk,	no.
by the formula.						
Card 1/2	Ove sherres or carr	tion-exchange mem ons, the transfer	brane containing ence number of t	one species he counterion	of counterions a	and ed
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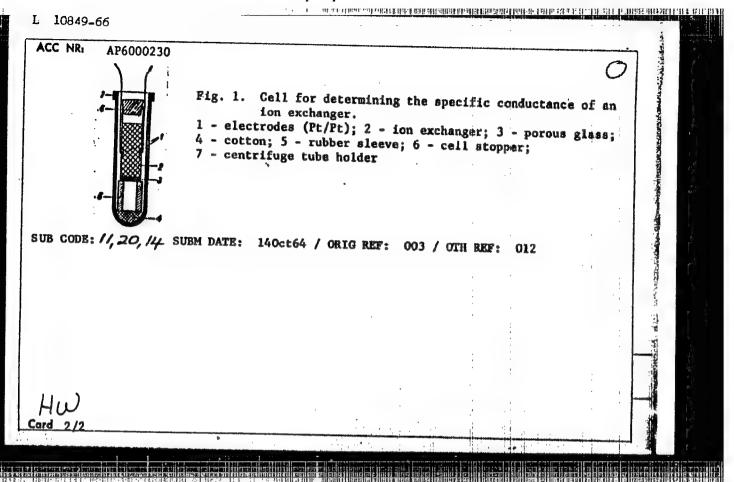
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where \mathcal{Z}_D is the conductance due to counterions adsorbed through exchange, \mathcal{Z}_C is the conductance due to the sorbed electrolyte, and t_+ is the transference number in the sorbed solution. This expression was checked on MK-40 membranes in SuSO4, CaCl2, and Na2SO4 solutions by measuring the transference numbers and conductance of the membranes as functions of the concentration of the external solution. The selectivity of the membranes was also determined. The calculated and experimental values of the transference numbers for dilute equilibrium solutions agreed within 1-4%. The discrepancy observed with increasing concentration of the external solution is explained by the increase in the concentration of the bound ions (due to a decrease in swelling) and by the effect of the sorbed electrolyte on the mobility of the ions absorbed as a result of the exchange. Orig. art. has: 4 figures, 2 tables, and 8 formulas.

SUB CODE: 07, 11 / SUBM DATE: 26Jun64 / ORIG REF: 002 / OTH REF: 007

Card 2/2

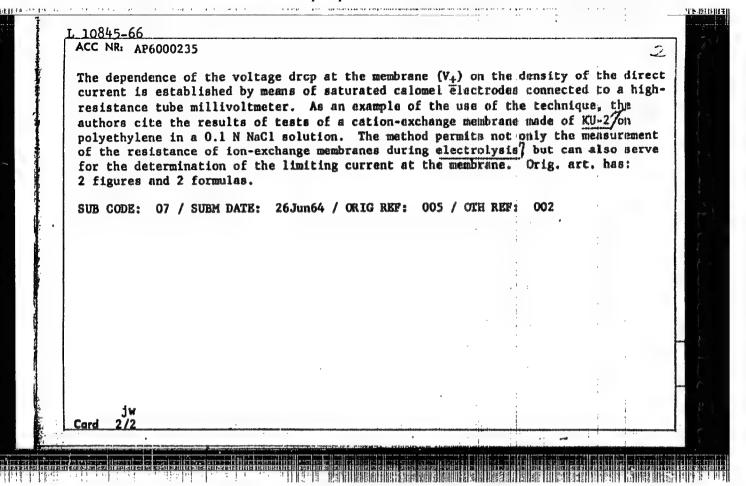
10849-66 EWI(m)/ETC/EWG(m) RM/DS ACC NRI AP6000230 SOURCE CODE: UR/0289/65/000/002/0009/0012 AUTHOR: Grebenyuk, V. D.; Gnusin, N. ORG: Institute of Physicochemical Principles of the Processing of Hineral Raw Materials, Siberian Branch, AN SSSR Novosihirsk (Institut fiziko-khimicheskikh osnov pererabotki mineral nogo syr ya Sibirskogo otdeleniya AN SSSR) TITLE: Method of measuring the specific conductance of an ion exchanger in a gran-9 W SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1965, 9-12 TOPIC TAGS: electric conductivity, ion exchange membrane, ion exchange resin ABSTRACT: The specific conductance is measured directly after the granulated ion exchanger has been separated from the equilibrium solution by centrifuging. The exchanger is placed in a cell (see Fig. 1) where equilibrium is allowed to take place; the cell is then centrifuged, thermostated, and its resistance is measured, and from the latter, the specific conductance of the ion exchanger is calculated. The method was checked on a ground ion-exchange membrane. The effect of the centrifuging rate on the cell resistance was determined. The method is recommended for application to resin membranes as well. The convenience of the thermostating of the cell makes this method applicable to studies of the change in the conductance of ion-exchange resins and membranes with changing temperature. Orig. art. has: 4 figures and 2 tables. 1/2 UDC:



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1	10848-56 EWT(m)/ETC/EWG(m) DS/RM	
	ACC NR. APERIORIZA	geriller et
	AUTHOR: Pevnitskaya, M. V.; Gnusin, N. P. 19155	1
- 1	Lavrova, T. A.	2014
	ORG: Institute of Physicochemical Principles of the Processing of Mineral Raw Bereraberts Branch, AN SSSR, Novosibirsk (Institute first)	j j
+	Materials Siberian Branch, AN SSSR, Novosibirsk (Institut fimiko-khimicheskikh osnov pererabotki mineral nogo syr ya Sibirskogo otdeleniya AN SSSR)	
	pererabotki mineral nogo syr ya Sibirskogo otdeleniya AN SSSR,	art.
	TITLE: Electric transport of ions through a cation-exchange membrane in mixed salt	
	soldcrons membrane in mixed salt	***
!	SOURCE: AN SSSR. Sibirskove atdelander	
1	SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk,	
١.	TOPIC TAGS: ion exchange membrane, ion exchange resin, electric conductivity	r, et
	WYINALI: 100 Alackment	r L
		k) Hij
t	ANO3 AgNO3. It was found that Ag ⁺ , Ba ⁺⁺ , and Cu ⁺⁺ ions are selectively absorbed by ave higher transference numbers in the membrane than sodium.	200
•	POULLIC DMFMGGM11450 JE 4	
P	pecific permeability of membranes is determined both by the concentration of the articles in the ion exchanger and by their mobility in the regin phase. It is shown	6

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EWT(m)/ETC/EWG(m)/T/EWP(t)/EWP(b) RM/DS/JD SOURCE CODE: UR/0289/65/000/002/0139/0141 39 10845-66 AUTHOR: Gnusin, N. P.; Pevnitskaya, M. V. ACC NR: AP6000235 ORG: Institute of Physicochemical Principles of the Processing of Mineral Raw Materials, Siberian Branch, AN SSSR, Novosibirsky (Justitut fiziko-khimicheskikh osnov pererabotki mineral nogo syr ya Sibirskogo otdeleniya AN \$S\$R) TITLE: Measurement of the resistance of ion-exchange membranes during electrolysis SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1965, 139-141 TOPIC TAGS: ion exchange membrane, electric resistance, electrolysis ABSTRACT: A method is proposed for determining the resistance of ion-exchange membranes with both alternating and direct current. A description of the circuit used for simultaneously measuring the membrane potential and resistance of the membrane is given. The resistivity of ion-exchange membranes is calculated from the relation where f is the conductivity (ohm⁻¹ cm⁻¹); d is the membrane thickness (cm); q is the cross section of the membrane (cm2) Z is the resistance to alternating current (ohm). UDC: 66.074.7-278



ACC NR: AP6029072

SOURCE CODE: UR/0413/66/000/014/0130/0130

INVENTOR: Gnusin, N. P.; Bartenev, V. Ya.; Varentsov, V. K.

ORG: None

TITLE: A method of electrolytic cadmium plating. Class 48, No. 184089 (announced by the Institute of Physicochemical Fundamentals for Conversion of Mineral Raw Materials, Siberian Department, Academy of Sciences SSSR (Institut fiziko-khimiches-kikh osnov pererabotki mineral'nogo syr'ya Sibirskogo otdeleniya Akademii nauk SSSR)

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 130

TOPIC TAGS: cadmium, electrolytic deposition, metal plating

ABSTRACT: This Author's Certificate introduces a method of electrolytic cadmium plating in an electrolyte based on cadmium sulfate and ammonium sulfate. This procedure results in high quality coatings with excellent adhesion to the base. We disperser is added to the initial solution. This chemical is the product of condensation of a sodium salt of β -sulfonaphthalenedicarboxylic acid with formaldehyde. Plating is done in an electrolyte with the following ratio of components (in g/t): cadmium sulfate—80; ammonium sulfate—300; NF disperser—35-50 m/t. The process is done at a current density of 1.5 a/dm² and a pH of 4.5-5.0.

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UDC: 621.357,7:669.738

MOVITERITY, i.e. usules, still contact the coordinates of a potential courrent density logarithm. Thus, fire, thim. 39 no.8:2067-2068 Ag '65.

1. Institut fizike-khimicheskikh osnov mineral nogo syr'ya Sibirskogo otdeleniya AN SSSR.

GHUSIN, P.

Poultry farms serving several collective farms. Sel'. stroi. no.9:10-11 S '62. (MIRA 15:10)

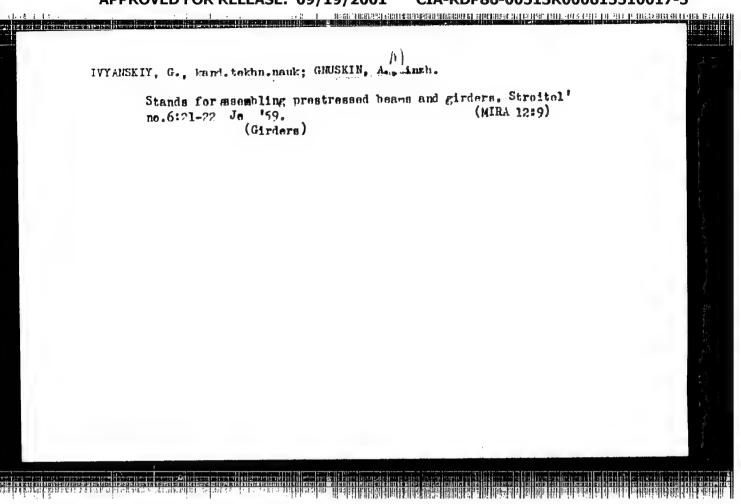
1. Predsedatel' Yaroslavskogo oblastnogo mezhkolkhoznogo khozyaystvennogo stroitel'stva.

(Yaroslavl Province-Poultry houses and equipment)

IVYANSKIY, G.B., kand.tekhn.nauk; KASITSYNA, K.N., inzh.; GHUSKIN, A.M., inzh.; SKVORTSOVA, I.P., red.izd-va; MEDVEHEV, L.Ya., tekhn. red.; SHERSTNEVA, N.V., tekhn.red.

[Temporary instruction (I-12-59) and album of drawings of equipment and devices for assembling precast prestressed reinforced concrete construction elements] Vremennais instruktaila (I-12-59) is album chertezhai oborudovaniis i prisposoblenii dlis montazha sbornykh zhelezobetonnykh predvaritel no napriazhennykh konstruktaii. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1959. 136 p. (MIRA 13:3)

1. Akademiya stroitel stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel stvu. 2. Laboratoriya montazha stroitel nykh konstruktsiy Nauchno-issledov.instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel stvu (for Ivyanskiy, Gnuskin). (Building machinery)



CHERMAREV, Yakov Fedorovich, sostavitel'; BOGDANOV, I.H., uchitel' matematiki; MODEL', A.Ya., uchitel'; CHUSOV, N.V., uchitel'; PAVUK, T.I., uchitel'nitsa; ZDRAVOMYSLOVA, N.K., uchitel'hitsa matematiki; BORISOV, S.A, uchitel' matematiki; KITAYGORODSKIY, P.I., uchitel' matematiki.

[Teaching mathematics in the schools for young workers] Is opyta prepodavaniia matematiki v shkolakh rabochei molodezhi; sbornik statei. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1952. 128 p. (MLRA 6:5)

1. Akademiya pedagogicheskikh nauk RSFSR, Institut metodov obucheniya.

2. Shkola rabochey molodyeshi No 52, Moskva (for Bogdanov). 3. Shkola rabochey molodyeshi No 31, Leningrad (for Model'). 4. Shkola rabochey molodyeshi No 4, Moskva (for Grusov). 5. Shkola rabochey molodyeshi No 65, Moskva (for Favuk). 6. Shkola rabochey molodyeshi No 71, Leningrad (for Edravamyslova). 7. Shkola rabochey molodyeshi No 32, Moskva (for Borisov).

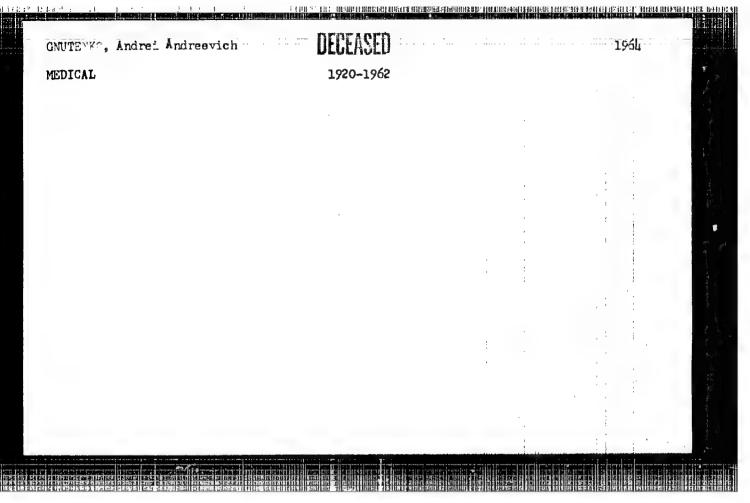
8. Shkola rabochey molodyeshi No 45, Moskva (for Kitaygorodskiy).

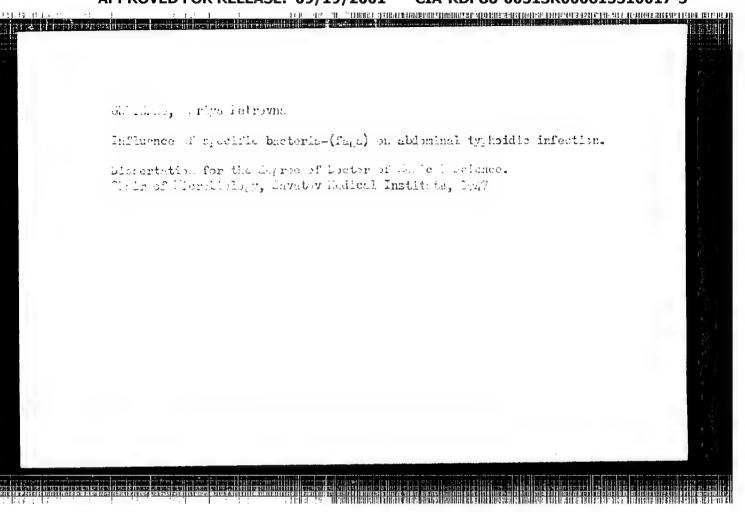
(Mathematics—Study and teaching)

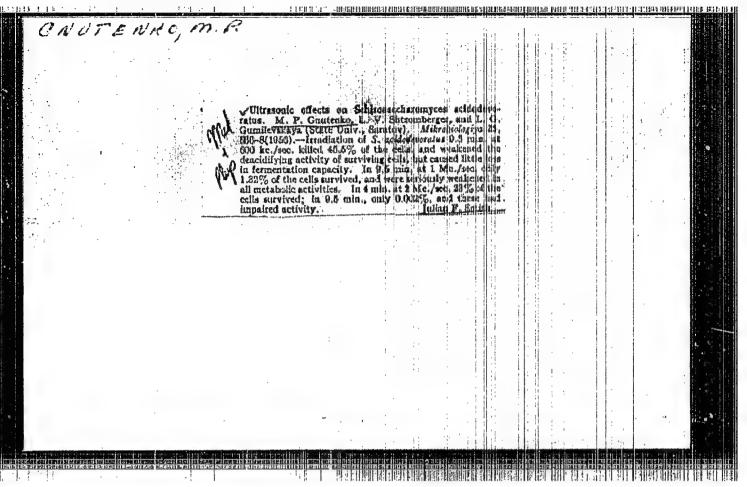
BOJANOWSKI, Witold, mgr inz.; GNUTEK, Jan, mgr inz.; ROSSINSKI, Boleslaw, doc. mgr inz.

Application of isotop method to density and moisture measurements of certain coarse-grained soils. Gosp wodna 24 no. 2:55-57 F 164.

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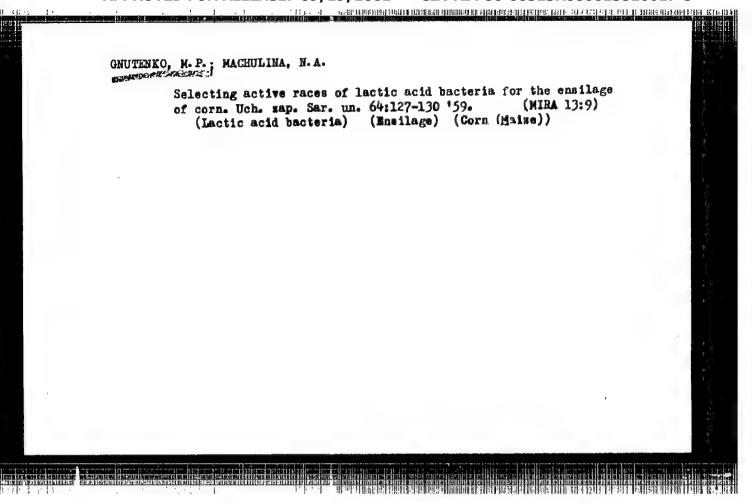






And the control of th **USSR** COUNTRY CAREGORY : REDECT., He.3 1959, No. 10114 ANG. JOHA. Guutenko, M. P., Papkova, L. A., Midezhko, Z. A. * ATT HOR Pigment-Forming Schizosaccharomyces Acidodevoratus TEST. T. ILE and Measures for Controlling Them Microbiologiya, 1957, 26, No 3, 353-359 OFIG. PUB. : * Demchuk, A. L., Yegorova, S. L. ABSTRACT The authors isolated 3 strains of dividing yeasts (from apple and cherry juice at the Simferopol' Winery and from apple juice at the Saratov Winery). In its morphologic and biochemical properties these yeasts resemble Schizosaccharomyces acidodevorates Chalenko, differing only in the formation of an olivecolored pigment. It was shown that the quantitative ratios of dividing and ellipsoid yeasts have an influence Card: 1/3

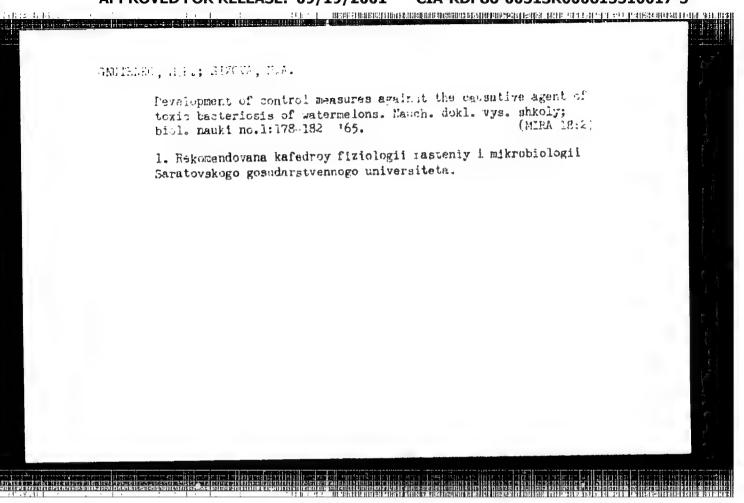
COUNTRY CATEGORY MZDBiol., No. 1959, No. 10114 ABJ. JOUR. AUTHOR THIST. TITLE onic. Pub. on the decrease in acidity in the aruit juices. No ABSTRACT decrease occurs only when they are present in a ratio 1:10: therefore, the quantitative predominance of commercial yeasts should be very great. The decrease in acidity is produced by the utilization of malic acid in the presence of sugar. With the aim of controlling the dividing yeasts it is recommended that the vessel be treated with chlorine (10 milligrams of active chlorine per liter of water for 20 minutes) and that the fruits also be treated with chlorine (5-10 2/3 Card:

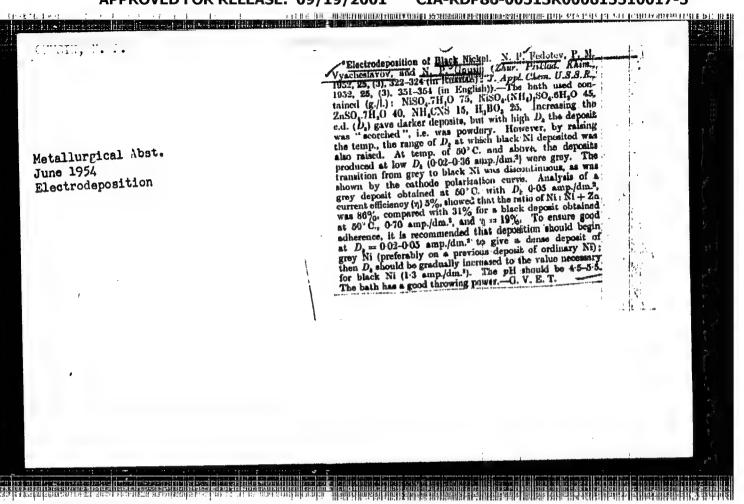


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Species characteristics and antibiotic proporties of streptococci isolated from watermelons. Mikrobiologiia 32 no.4:636-641 JI-Ag 163.

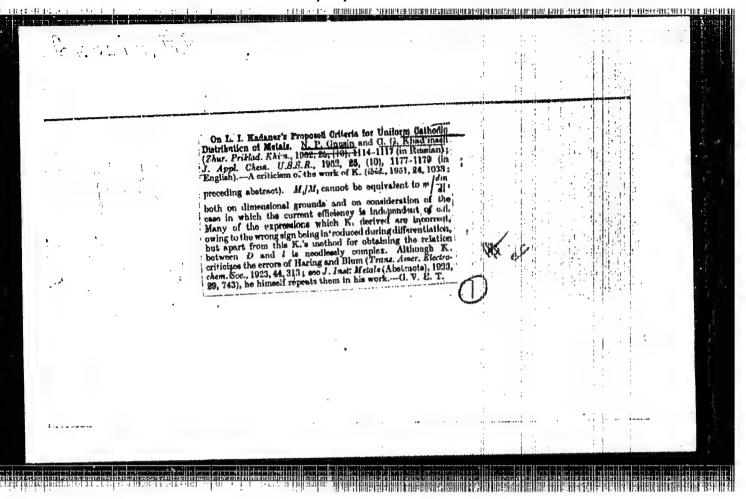
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- 1. GNUSIN. N. P.: KHAD'MASH, G. G.; KADANER, L. I.
- 2. USSR (600)
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- 7. Criterion of the uniformity of metal distribution on the cathode. Zhur. prikl. khim. 25, No. 10, 1952.

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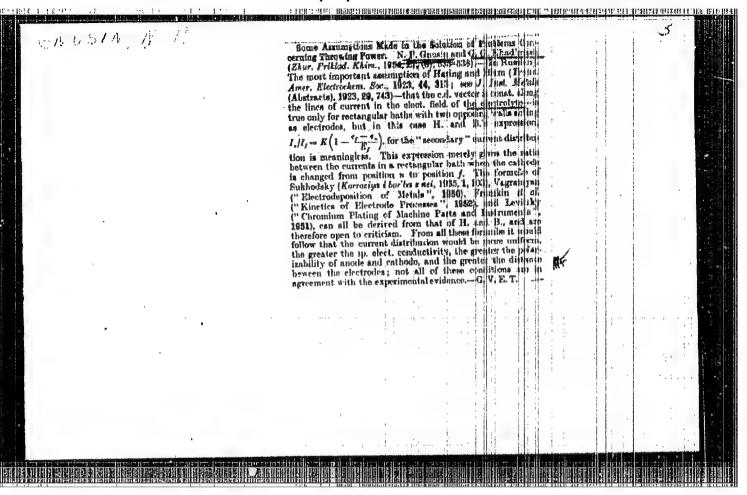
Gnusin, N.P. --"Study of the Structure of Electrodeposition of Me als"
Cand Chem Sci, Leningrad Technological Inst, Leningrad 1953. (district Trivy)
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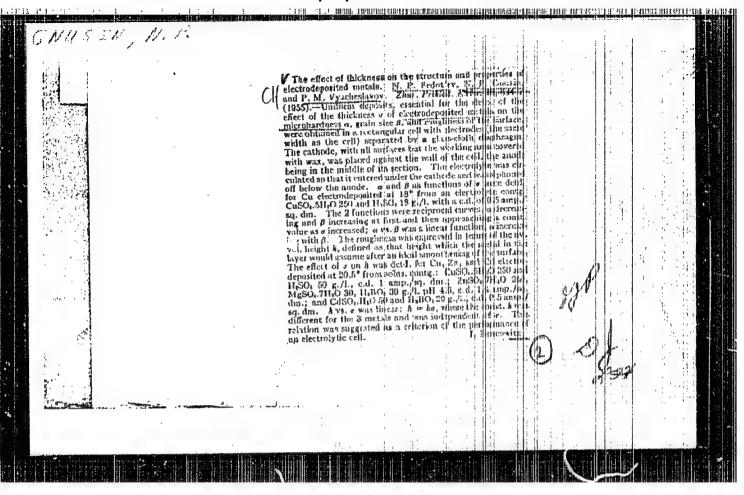
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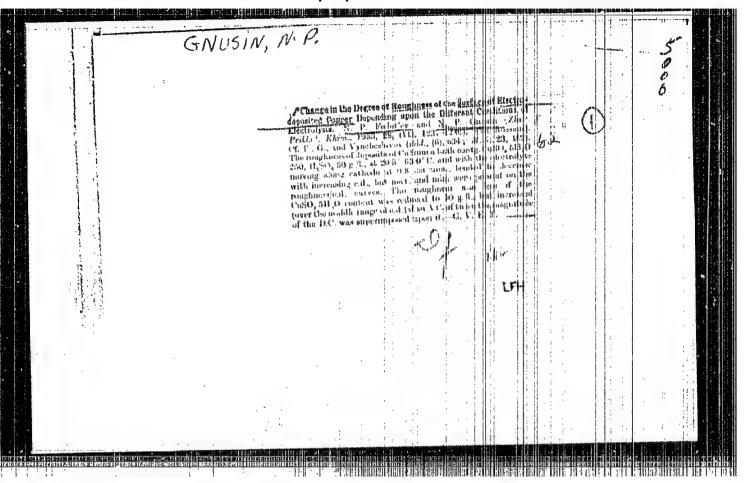
e i til og i Sidde skilede mark benskrige etterenskrike. Har ekste andre still fra av i stille skilede i se som etter et

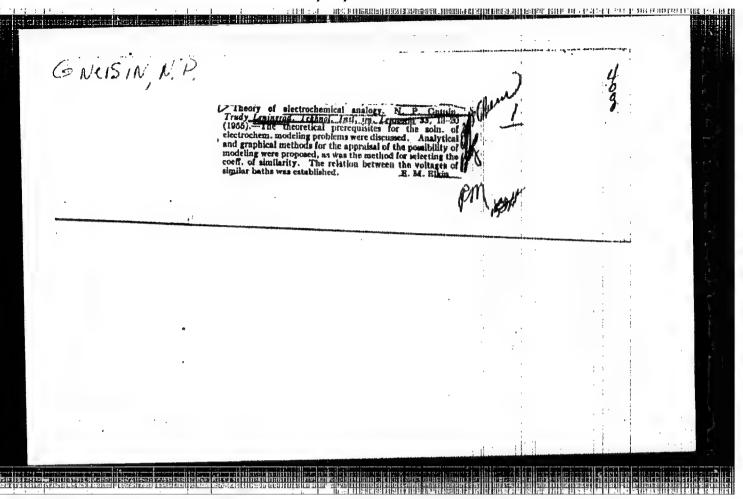
KADANER, L.I.; GNUSIH, N.P.; KHAD, MASH, G.G.

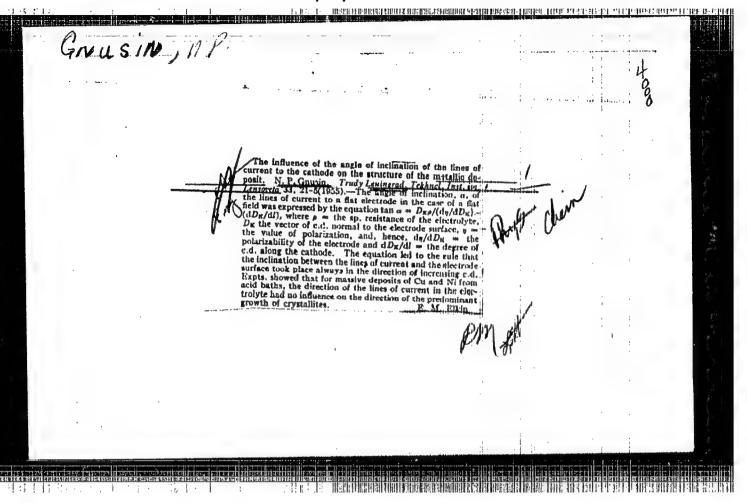
Again on the criterion of the uniformity of distribution of metal on a cathode. Enur.prikl.khim. 26 no.7:770-774 Jl '53. (KLRA 6:7) (Electroplating) (Gmusin, N.P.) (Khad'mash, G.G.)

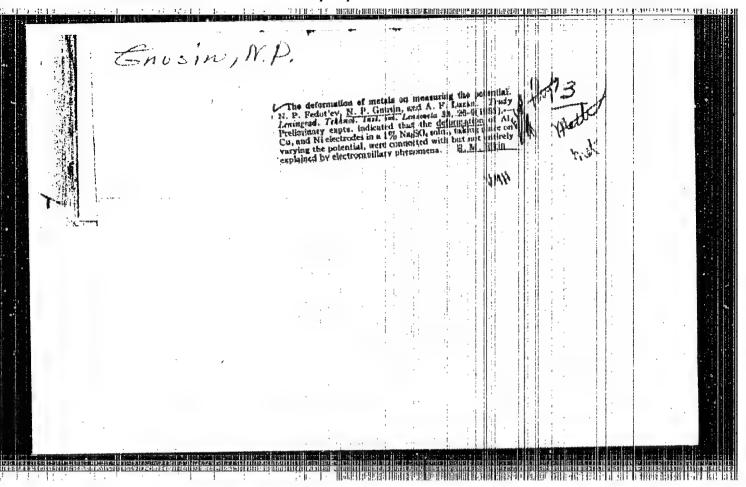












TO SEE THE PROPERTY OF THE PRO 76-32-3-29/43 Gnusin, N. P. AUTHOR: Methods and Techniques of Physicochemical Investigations (Metody i tekhnika fiziko-khimicheskogo issledovaniya). TITLE: A New Method for Measuring the Polarization Capacity and the Polarization Resistance of Double Layers (Novyy sposob izmereniya polyarizatsionnoy yemkosti i polyarizatsionnogo soprotivleniya dvoynogo sloya) Zhurnal Fizicheskoy Khimii, 1958, Vol 32, Nr 3, PERIODICAL: pp 689-691 (USSR) The kind of determination most used at present is the ABSTRACT: bridge scheme first applied by Krüger (reference 1) and considerably improved by a number of Soviet scientists. This scheme, however, has serious principal deficiencies; on the other hand electrochemical systems which are worked with in practice were not investigated. In contrast to the other modifications of the bridge scheme a method of separate measurements is worked out in the present paper. This method consists of the formation of a resistance triangle that connect the double-layer resistance and the Card 1/3

Methods and Techniques of Physicochemical

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Investigations.

A New Method for Measuring the Polarization Capacity and the Polarization Resistance of Double Layers

reference resistance one after the other with the circuit. From a schematic representation follows that the test cell consists of a tank with two opposite surfaces as electrodes, where to one electrode the end of a capillary tube with a platinum wire is held, and where the system is accordingly connected with a reference resistance. The latter may serve as an active or inductive or as an active-inductive resistance. The calculation of the obtained results was in the present case performed graphically by means of the resistance triangle, while the quantities of the nonreactive resistance and the capacity were calculated according to. formulae. It is said to be an advantage of this method that neither the nonreactive resistance of the electrolyte nor the resistance of the double layer of the second . electrode come into the final value, where the use of a third auxiliary electrode is unnecessary and measurements can be performed in an unlimited domain of capacity and

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Methods and Techniques of Physicochemical

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Investigations.

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A New Method for Measuring the Polarization Capacity and the Polarization Resistance of Double Layers

resistance. There are 4 figures and 8 references, 4 of

which are Soviet.

ASSOCIATION:

Institut inzhenerow transporta, Minsk

(Minsk, Institute of Transportation Engineers)

SUBMITTED:

December 19, 1956

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76-32-5-6/47 Gnusin, N. P., Zrazhevskiy, G. H. AUTHORS:

Primary Current Determination in a Slit Bath (Fervichnoge

raspredeleniye toka v shchelevoy vanna) TITLE:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Hr 5, PERIODICAL:

pp. 1003-1007 (USSR)

In many cases the primary current is determined directly by ABSTRACT:

experiments, while the present paper gives a possibility of theoretical determination for the case mentioned in the title. The mentioned cell consists of a rectangular vessel in which one wall serves as cathode and the anode is a slit between two opposite fins, The authors start from the assumption of an infinitely long linear electrode located between two parallel infinite flat electrodes. In the deduction of the mathematical equations the method of reflected image representation is used and it is assumed that the currents flowing from each linear electrode are equal as regards their sign and quantity. Graphical representations of the current distribution in the cell in dependence on the dimensional ratio are given as well as the function of the maximum current density \mathbf{D}_{max} on the minimum

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autor et it a si a reconstituit de la sacción de la constituit de la const

Primary Current Determination in a Slit Bath 76-32-5-6/47 current density D_{min} . The equation $T = 1 e^{\pi l/2h}$ deduced from the expression for the unequal current distribution on the is given as calculation formula for the

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cells with a length to width ratio (0.5.

There are 3 figures and 3 references, 1 of which is Soviet. Belorusskiy institut inzhenerov zheleznodorozhnogo trans-ASSOCIATION:

porta Gomel' Belorussian Institute for Railroad Transportation

Engineers , Gomel'!

SUBMITTED: October 25, 1956

1. Electrolytic cells-Gircults 2. Electric currents-

Determination 3. Mathematics applications

Card 2/2